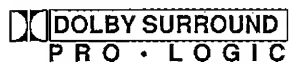




# SS THREE

## Surround Sound Processor



With

## Amplifier and Remote Control

Blank lined paper for writing.

# AudioSource®

<p><b>WARNING:</b> to reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.</p>	<div data-bbox="905 121 1049 247"></div> <p>The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.</p> <div data-bbox="905 289 1049 415"></div> <p>The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.</p>
<div data-bbox="239 279 442 363"></div> <div data-bbox="459 247 839 394"> <p><b>CAUTION:</b></p> <p><b>RISK OF ELECTRICAL SHOCK DO NOT OPEN</b></p> </div>	<p><b>WARNING:</b> TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLETS UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.</p>
<p><b>CAUTION:</b> to reduce the risk of electric shock, do not remove cover (or back); no user-serviceable parts inside. Refer servicing to qualified service personnel.</p>	

## Safety Instructions

**Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.

**Retain Instructions** - The safety and operating instructions should be retained for future use.

**Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.

**Follow Instructions** - All operating and use instructions should be followed.

**Water and Moisture** - The appliance should not be used near water. For example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

**Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in situation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

**Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

**Power Sources** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

**Grounding or Polarization** - Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

**Power-Cord Protection** - Powersupply cords should be routed so that they are not likely to be walked on or pinched by items placed on or against them, paying

particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

**Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.

**Power Lines** - An outdoor antenna should be located away from power lines.

**Non-use Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

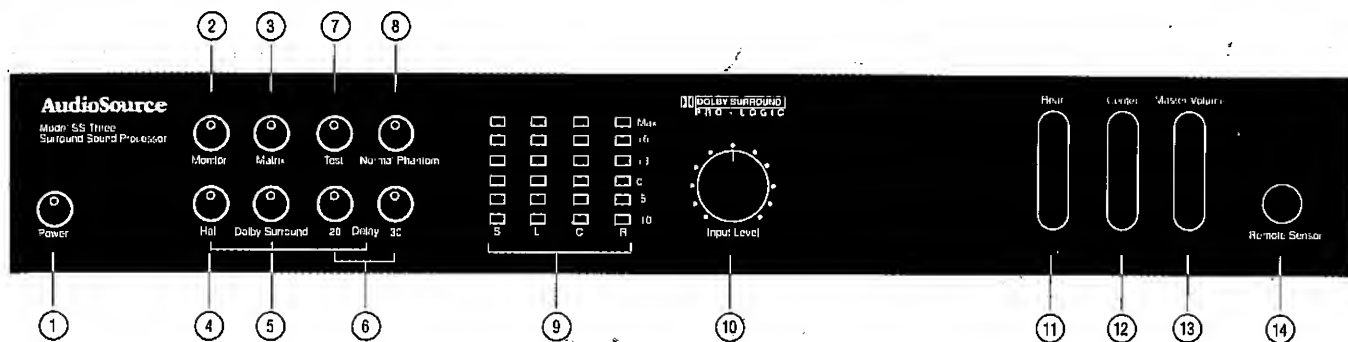
**Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

**Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:

- A) The power supply cord or the plug has been damaged; or
- B) Objects have fallen, or liquid has been spilled into the appliance; or
- C) The appliance has been exposed to rain; or
- D) The appliance does not appear to operate normally or exhibits a marked change in performance; or
- E) The appliance has been dropped, or the enclosure damaged.

**Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

**Product Servicing** - In the event your SS Three fails to operate properly, please contact the dealer where you purchased the unit. Or you may contact Audio Source directly for further assistance.



## Introduction

Thank you for purchasing the AudioSource SS THREE Dolby Pro Logic Surround Sound Processor. By spending a few minutes to read the operating instructions carefully, you will have years of thrilling, realistic viewing and listening pleasure. The SS THREE incorporates the advanced circuitry of Dolby Pro Logic decoding. This technology allows the usage of a center channel speaker, providing pinpoint accuracy for everyone in the viewing area. A built-in test signal using a tailored

pink noise generator enables fast and easy volume settings for each speaker, and assures proper adjustment of the system.

An auto-calibration circuit continuously monitors and adjusts the balance of the source material input for proper decoding. Various speaker configurations, including a subwoofer can be used with the SS THREE to maximize performance in any system.

## Controls

**R/C** : The remote control may be used to perform functions where this symbol appears.

### ① Power **R/C**

Press to turn unit on. Press again to turn unit off.

### ② Monitor **R/C**

This button selects the source signal or output of a unit connected to the TAPE IN jacks of the SS THREE.

### ③ Matrix **R/C**

Press to synthesize a stereo sound from a mono source such as mono sound television broadcasts, old movies, or mono VCR recordings.

### ④ Hall **R/C**

Press when listening to non-Dolby encoded stereo material. The Hall circuit will create the "spaciousness" or reverberation experienced in a concert hall.

### ⑤ Dolby Surround **R/C**

Press to attain the Dolby Surround information that is encoded in a videotape, a laser disc, or Dolby encoded stereo television program. The Delay controls may also be used in this mode.

### ⑥ Delay **R/C**

These buttons determine the time delay between the front and rear (surround) speakers. When the Dolby Surround ⑤ mode is selected, you may choose either a 20 or 30 millisecond delay. By increasing the delay, you deepen the three-dimensional effect. When the

Matrix ③ or Hall ④ modes are selected, the 30 millisecond delay is automatically used.

### ⑦ Test **R/C**

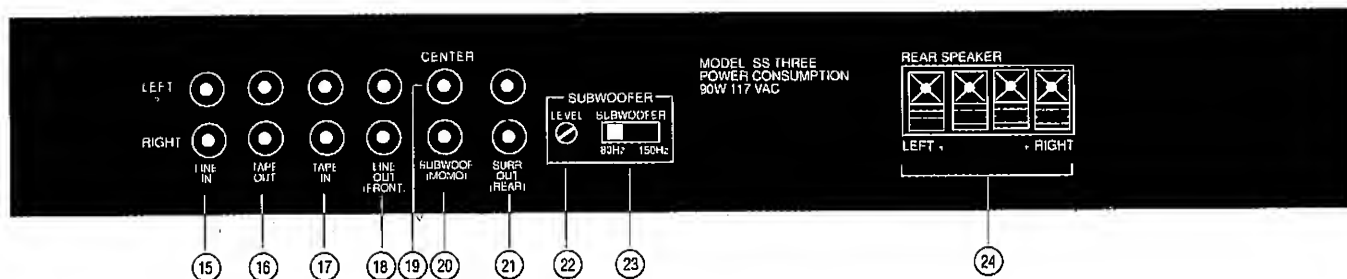
This feature allows all speaker levels to be quickly and accurately adjusted for perfect sound balance. Press to engage the unit's pink noise generator. The unit will sequentially send a signal from each of the four channels (Left, Center, Right, Surround). Use the volume control on your integrated amplifier/receiver and the Rear ⑪ and Center ⑫ volume controls on the SS THREE to balance the volume levels on all of the channels. Once the sound on all four channels is set to an equal volume, press the Test button again to disengage the test feature. All of the volume levels are now set for the optimal Dolby Surround effect.

### ⑧ Normal / Phantom **R/C**

The SS THREE may be used with or without a front, center channel speaker. Press to switch between Normal operation and Phantom operation. If there is no center amplifier and speaker to support the center channel, press to engage Phantom operation. (the button will be lit). In this mode, the unit will operate without the center channel speaker, and the information will be diverted to the Left and Right speaker. Only the Left, Right, and Surround channels will be active.

### ⑨ Level Indicators

This dual-purpose display indicates the input levels for the Surround, Left, Center and Right channels, as well as the respective volume settings.



### ⑩ Input Level

This controls the input levels of all four channels. Normally set in the "12 o'clock" to "3 o'clock" position, the level should be adjusted so that at least one of the top row of Level Indicator ⑨ LED's are briefly lit during maximum sound passages.

### ⑪ Rear R/C

When first pressed, the Level Indicators ⑨ will display the volume settings. When pressed again, or held for 3 to 4 seconds, the actual volume level will change. This control raises and lowers the volume of the rear Surround channel. Press the top of the control to raise the volume of the rear channel. Press bottom of the control to lower the volume of the rear channel.

### ⑫ Center R/C

When first pressed, the Level Indicators ⑨ will display the volume settings. When pressed again, or held for 3 to 4 seconds, the actual volume level will change in steps. This control raises and lowers the volume of the Center channel. Press the top of the control to raise the volume of the center channel. Press bottom of the control to lower the volume of the center channel.

### ⑬ Master Volume R/C

When first pressed, the Level Indicators ⑨ will display the volume settings. When pressed again, or held for 3 to 4 seconds, the actual volume level will change in steps. This control raises and lowers the volume of all the channels (Surround, Left, Center and Right) simultaneously. Once the four individual volumes are adjusted, use this control to raise the volume without disturbing the relative settings. Press the top of the control to raise the volume of all the channels. Press bottom of the control to lower the volume of all the channels.

### ⑭ Remote Sensor

This receives commands from the remote control.

②② **LEVEL** - The LEVEL control is used to adjust the output level of the SUBWOOF jack.

②③ **SUBWOOF** - the SUBWOOF switch is used to adjust the crossover point of the SUBWOOF jack. You may choose either 150 Hz or 80 Hz. Refer to your subwoofer Owners Manual for optimum setting.

## Connections

Note: At the rear of your SS THREE, you will find five pairs of jacks: LINE IN, TAPE OUT, TAPE IN, LINE OUT (FRONT), AND SURR OUT (REAR). In addition, there is one jack for CENTER, and one jack for SUBWOOF (MONO). All the jacks require cables using standard RCA plugs. You will also find speaker terminals for the rear speakers.

①⑤ **LINE IN** - The left and right LINE IN jacks are used for the output source of a VCR, Laser Disc, or Tape RECORD Out of your integrated amplifier / receiver.

①⑥ **TAPE OUT** - The left and right TAPE OUT jacks are used for the input (RECORD/IN) of a tape deck connected to the SS THREE.

①⑦ **TAPE IN** - The left and right TAPE IN jacks are used for the output (PLAY/OUT) of a tape deck connected to the SS THREE.

①⑧ **LINE OUT** - The left and right LINE OUT jacks are used for the input of a stereo television or Tape Monitor / Input of your integrated amplifier / receiver.

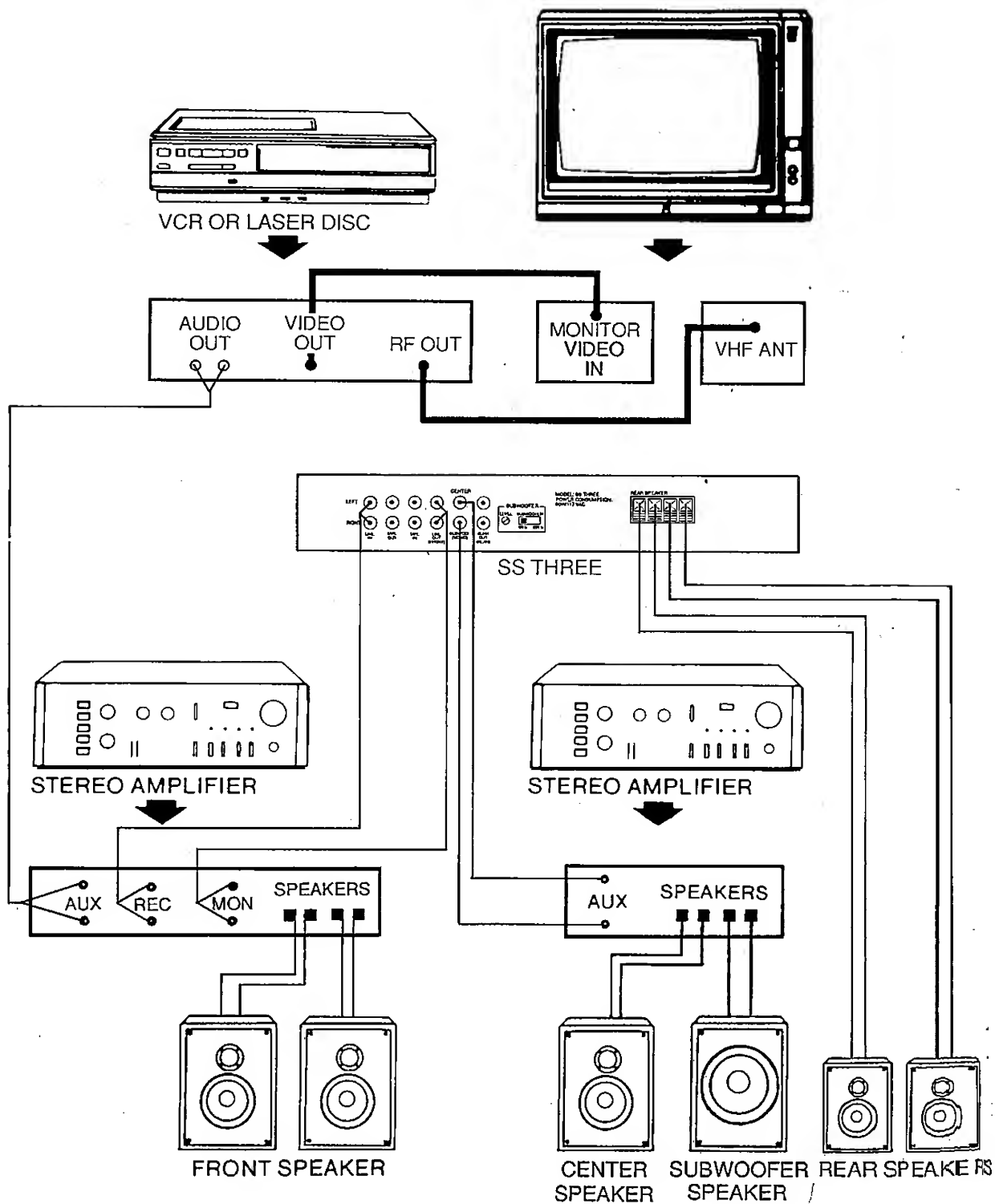
①⑨ **CENTER** - This output jack is used for a front center speaker, powered by a separate amplifier or integrated amplifier / receiver.

②① **SUBWOOF** - This output jack is used for a front channel subwoofer speaker powered by a separate amplifier or integrated amplifier / receiver.

②① **SURR OUT** - The left and right SURR OUT jacks are used for a separate rear (surround) channel amplifier, when more power than the built-in SS THREE amplifier is desired.

②④ **REAR SPEAKER** - The REAR SPEAKER terminals are for the left and right rear channel speakers, when using the built-in SS THREE amplifier.

■ TV, Stereo VCR/Laser Disc and using two external Stereo Amplifiers for the Front, Center and Subwoofer Speakers

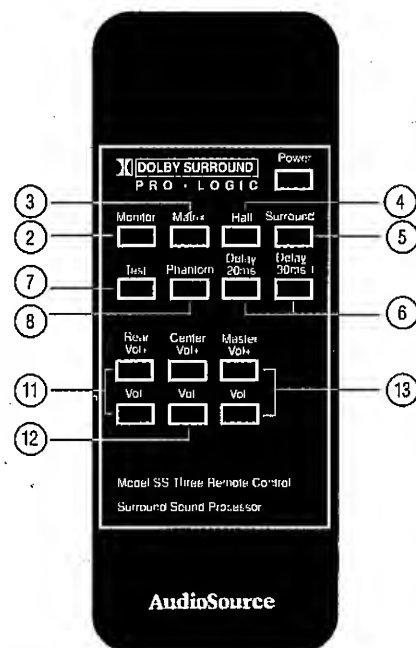


# Remote Control

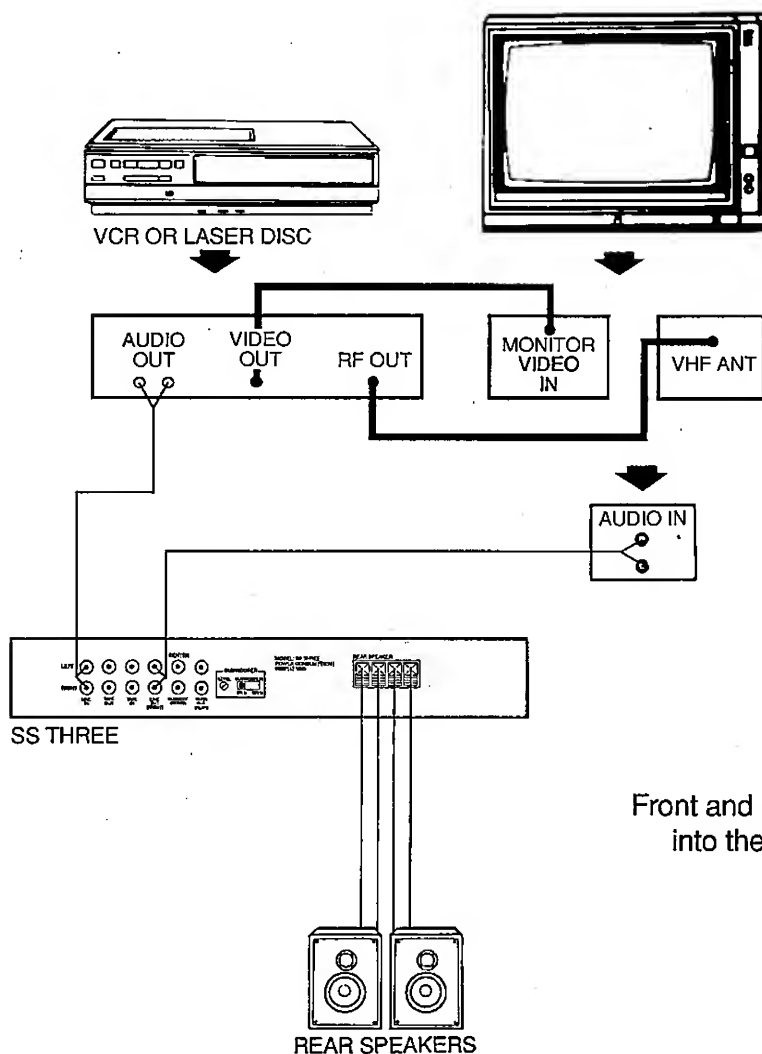
The Remote Control unit will perform most of the functions that you can accomplish at the front of your SS THREE. Simply point it toward the Remote Sensor at the front of the SS THREE and press the function you want to activate.

## NOTE:

The remote control uses two UM-3 (AA size) batteries. Be sure the batteries are inserted correctly. Inside the case you will see markings indicating the correct positioning of the batteries. If you will not be using the remote control for several weeks, remove the batteries from its compartment.



## ■ Stereo TV/Monitor and Stereo VCR or Laser Disc



## Specifications

### SS THREE

#### Main Unit

Amplifier Power Output:	30W + 30W
Frequency Response:	Matrix: 20Hz - 20kHz Hall: 100Hz - 7kHz Dolby Surround: 100Hz - 7kHz
Signal/Noise Ratio: (Surr. Decoder)	90 db
Delay Time:	20ms, 30ms switchable
Delay Method:	Digital
Input Sensitivity (line):	150 mv
Input Impedance:	47k Ohms
Maximum Input Capacity:	2.5V
Output Level (Surr. out, Dolby mode):	1.5V
Center Channel Output:	1.5V
Subwoofer Output:	.25V - 2.5V (variable)
Subwoofer Crossover Frequency:	80Hz, 150Hz (selectable)
Input Handling Modes:	Dolby Pro Logic Surround Sound Hall Surround Matrix Surround, Monitor
Outputs:	Line Out (unprocessed) Center Out Subwoofer Out Surround Out (processed) Tape Record Out
Reference Display:	6 Level LED Display for Surround, Left, Center & Right Channel
Power Requirement:	120 V AC, 60Hz, 90 Watts
Dimensions:	16 1/2"W x 2 1/16"H x 9 1/8"D
Weight:	7 lbs. 10 oz.

#### Remote Control Transmitter

Type:	Infrared Remote Control
Batteries:	"AA" 1.5V x 2
Dimensions:	2.5"W x 6.7"H x 0.7"D

*Designs and specifications subject to change without notice*

# AudioSource®

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## **SS THREE**

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This unit is equipped with an amplified center channel, which may be used instead of the line-level, un-amplified center channel output.

To engage the center channel amp, press in the "CTR SPK" button located on the top left of the rear panel. The center channel speaker should then be connected to the "CTR SPK" speaker terminals located on the top center of the rear panel. **NOTE:** If a separate center channel speaker is not connected to the "CTR SPK" terminals, the "CTR SPK" button should be in the "off" or "out" position.

All other operating instructions and controls will operate in the exact same manner as noted in the Owner's Manual.

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